SOL Instruction Tracking Form Grade 8 Mathematics

Place the SOL Instruction Tracking Form after the VGLA Collection of Evidence (COE) Coversheet. Use the SOL Instruction Tracking Form to track the evidence collected for submission.

SOL 8.1	The st	tudent will				
	simplify numerical expressions involving positive exponents using					
a)		rational numbers,				
		order of operations, and				
		properties of operations with real numbers; and				
	re	cognize numbers expressed in scientific notation,				
b)	represent numbers expressed in scientific notation,					
	compare numbers expressed in scientific notation, and					
	order numbers expressed in scientific notation; and					
	compare					
		decimals,				
		fractions,				
		percents, and				
c)		numbers written in scientific notation.				
	Of	order				
		decimals,				
		fractions,				
		percents, and				
		numbers written in scientific notation.				
SOL 8.2		tudent will				
	de	escribe the relationship between the subsets of the real numbers system.				
		orally and				
		in writing				
SOL 8.3		tudent will solve practical problems involving				
	-	tional numbers,				
	percents,					
		tios, and				
proportions.						
	Problems will be of varying complexities and will involve real-life data, such as finding a discount and discount prices and balancing a checkbook.					
SOI 84		uni ana aiscouni prices ana vaiancing a спескооок. t udent will				
DOL 0.4		oply the order of operations to evaluate algebraic expressions for given replacement				
		values of the variables.				
	Problems will be limited to positive exponents.					
SOL 8.5		a whole number from 0 to 100, the student will				
		entify it as a perfect square, or				
		nd the two consecutive whole numbers between which the square root lies.				

SOL 8.6	The student will						
	verify by measuring and describe the relationships among						
	vertical angles,						
	supplementary angles,						
	complementary angles, and						
	measure and draw angles of less than 360°.						
SOL 8.7	SOL 8.7 The student will investigate and solve practical problems involving volume and surface						
area of	· · · · · · · · · · · · · · · · · · ·						
	rectangular solids (prisms),						
	cylinders,						
	cones, and						
	pyramids.						
SOL 8.8 The student will apply transformations (rotate or turn, reflect or flip, translate or slide, and							
dilate or scale) to geometric figures							
	represented on graph paper.						
	the student will identify applications of transformations, such as tiling, fabric design, art,						
	and scaling.						
SOL 8.9	The student will						
G 0 7 0 4	construct a three-dimensional model, given the top, side, and/or bottom view.						
SOL 8.1	0 The student will						
	verify the Pythagorean Theorem using						
a)	diagrams,						
	concrete materials,						
1)	measurement; and						
b)	apply the Pythagorean Theorem to find the missing length of a side of a right triangle						
COLOI	when given the lengths of the other two sides.						
SOL 8.1	1 The student will analyze problem situations including						
	games of chance, board games, or grading scales, and						
G 0 7 0 4	make predictions, using knowledge of probability.						
	2 The student will make <u>comparisons</u> , <u>predictions</u> , and <u>inferences</u> , using information						
displaye							
	frequency distributions;						
	box-and-whisker plots;						
	scattergrams;						
	line graphs,						
	bar graphs,						
	circle graphs,						
	picture graphs; and						
COT 0.1	histograms.						
SUL 8.1.	3 The student will						
	use a matrix to organize and describe data.						

SOL 8.14 The student will					
describe and represent relations and functions using					
a)	tables,				
	graphs,				
	rules; and				
	relate and compare				
b)	tables,				
	graphs, and				
	rules as different forms of representation for relationships.				
SOL 8.15 The student will solve two-step equations and inequalities in one variable using					
	concrete materials,				
	pictorial representations, and				
	paper and pencil.				
SOL 8.	6 The student will				
	graph a linear equation in two variables in the coordinate plane, using a table of ordered pairs.				
SOL 8.3	7 The student will create and solve problems using				
	proportions,				
	formulas, and				
	functions.				
SOL 8.3	8 The student will use the following algebraic terms appropriately:				
	domain,				
	range,				
	independent variable, and				
	dependent variable.				

Submit Quarterly to the building level administrator/designee for review:

Date Submitted/Initials	Date Submitted/Initials	Date Submitted/Initials	Date Submitted/Initials